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U.S. ENVIRONMENTAL PROTECTION AGENCY

PUBLIC MEETING

REPORT OF PROCEEDINGS had on October 25,  
1994 at the Venice Senior Citizens Center, Venice,  
Illinois.

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MS. PASTOR: Thanks for coming. This is  
the public meeting for the NL Industries/Taracorp site  
here in Granite City. We're also doing work, as you  
know, in Venice, Madison and surrounding areas. This  
meeting, as you will notice, is being recorded by a  
court reporter over there, so if you have any  
questions or comments when we get to the comment  
portion of the meeting, if you do have something that  
you'd like to state, she would need you to speak  
clearly, and spell your name for her. That will make

1 it easier on her. I'm Sue Pastor; I'm community  
2 relations coordinator for this site. Brad Bradley is  
3 the remedial project manager. He is the technical  
4 expert on this project. And Pat VanLeeuwen is the  
5 toxicologist who also works for U.S. EPA. She has  
6 lots of experience dealing with lead studies and lead  
7 issues. Brad and Pat will be doing a little bit of  
8 talking. And if you notice on the agenda, Brad will  
9 talk a little bit about the site, give you an update,  
10 if you'd like, on the alley and residential property  
11 cleanup and talk about what our proposed plan is, and  
12 what that is.

13 The reason why we are here is that we are  
14 in a remedial public comment period for clean up level  
15 for lead and soil, and Brad will talk a little bit  
16 about that. Pat can maybe explain a little bit about  
17 how we got that number. Between the two of them,  
18 hopefully we can clarify any questions, or any ideas  
19 that you have, or any concerns that you may have. And  
20 hopefully you'll be able to leave tonight with some  
21 more information that you didn't have when you came  
22 in.

23 If you didn't get the fact sheet, I hope  
24 you pick that up. I handed it all to you. So if you

1 didn't get that in the mail by signing our sign-in  
2 sheet, you will be on the mailing list. You will get  
3 all of our information in the mail from here on out.  
4 There is more information to be added in the Granite  
5 City Public Library. That's called the information  
6 repository. That has lots of the documents that will  
7 pertain to the site. So if you'd like to read  
8 technical information, that is there, too; along with  
9 the Administrative Record, which has even more  
10 information pertaining to the site. But hopefully the  
11 fact sheet that we provided you with will supply a lot  
12 of what we are talking about, and answer any questions  
13 you may have.

14           So I think in the interest of moving  
15 things along -- Hopefully, we can just meet your  
16 needs, since we're a small group, and we will try to  
17 give you a lot of information in a short period of  
18 time. But if we miss anything, when we get to the  
19 questions, we will gladly answer your questions. If  
20 not, when we get to comments, which is a little  
21 different, you can make a statement in a statement  
22 form, as opposed to a question, and we have the room,  
23 you know, for a little while longer yet. So we can  
24 take and answer any questions you may have. Brad.

1 MR. BRADLEY: We're here to discuss the  
2 residential soil lead cleanup level at the NL  
3 Industries/Taracorp site. It there are any other  
4 comments or questions regarding the Taracorp pile,  
5 ground water, we will entertain those, too. But what  
6 we are receiving comments on right now is the current  
7 cleanup level for the residential soils. The NL  
8 Industries/Taracorp site is located in Granite City,  
9 Madison, Venice, and Eagle Park Acres, and there are  
10 even a few spots in Glen Carbon where we've found some  
11 of the waste material. The main industrial area is  
12 shown on this map. That's where the former secondary  
13 smelter operated. That's also where the Taracorp  
14 pile, the 85,000 cubic slag heap was located. And the  
15 waste material migrated from the site through several  
16 pathways. One was the smelter stack. The smelter  
17 stack put out lead in the air, which then settled into  
18 the area around the site. There is also a slag pile,  
19 which may have also contributed to some dust  
20 emissions, as recently as at the end of '92, early  
21 '93. We've found that also contaminated the ground  
22 water. The lead volumes that we've detected in the  
23 wells adjacent, the down gradings of the Taracorp  
24 pile, is well over the standards, federal standards

1 for lead. And the third route was in the late '50's  
2 and early '60's, the NL Industries advertised free  
3 fill material from the slag pile. And this fill  
4 material was almost exclusively hard level battery  
5 case material. That's how it came to be located  
6 outside of its own influence, the smelter stack. We  
7 found levels of lead that were carried maybe a mile, a  
8 mile and a half away from the smelter. But battery  
9 casings were taken much farther. In the case of Glen  
10 Carbon, that happens to be 15 to 20 miles away. And  
11 the most, the hardest hit areas, as far as the battery  
12 case material, is in Venice and Eagle Park Acres.

13 What I have here is a map. The  
14 industrial area is in green. The area that we  
15 anticipate would be impacted above 500 parts per  
16 million around the smelter is marked in black, and red  
17 here. There is one little area, a little peninsula  
18 that sticks up here. That's also part of the area  
19 that was impacted by the smelter stack emission. The  
20 area shaded this purple are where the battery case  
21 material was used as fill. And that's what, except  
22 for the little peninsula, that brings Venice and Eagle  
23 Park Acres into the picture. And we've cleaned up a  
24 lot of the battery case material from alleys in

1 Venice, and from the yards, parking lots and driveways  
2 into the Eagle Park Acres, and we've -- To-date, we've  
3 spent about nine million dollars cleaning up the  
4 battery case material. We've also - - We've just  
5 began in late '93 and continued in August of this year  
6 eliminated a number of residential cleanups around the  
7 Venice site that had highest lead concentration from  
8 the smelter stack emissions. To-date, we've done  
9 somewhere around 2/6 of those. We're in the process  
10 or doing 17 more, currently.

11 MR. PALCHEFF: Can we interrupt you to  
12 ask specifics while we're going on?

13 MS. PASTOR: I was hoping you'd wait.

14 MR. BRADLEY: If you could wait --

15 MR. PALCHEFF: Like I was just going to  
16 say, these pieces of residential property, what was  
17 the lead level in those? If it varied, what was the  
18 minimum?

19 MR. BRADLEY: The minimum was, except for  
20 a park up at 822 Niedringhaus, it was all over a  
21 thousand parts, wasn't it? We cleaned that up because  
22 of the children playing there at school. And I can  
23 provide you more details, if you will come up in the  
24 question and answer section.

1 But what we basically did in 1990, EPA  
2 issued a Record of Decision for the NL site. And what  
3 one of the provisions of that is a cleanup level of  
4 500 parts per million of lead in residential soil. We  
5 noted that only applied -- That not only would apply  
6 to the areas impacted by the stack, the smelter stack  
7 emission, but also the cleanups of the higher battery  
8 case material in the areas that were within a yard.  
9 In other words, not a parking lot, not a driveway, or  
10 something that could be a paved use. What we  
11 initially were going to do with the driveway, parking  
12 lots, soil, and battery case material was clean them  
13 up to visual criteria, and then pave back over them  
14 with a barrier. We did change that provision through  
15 what is called an Explanation of Significant  
16 Differences. That's a document where we document a  
17 change, not a major change, but sort of the more minor  
18 change or remedy. The reason we did that is our  
19 initial sampling had shown that the battery case  
20 material may go down as far as seven feet. We did not  
21 want to expend the money to clean up all of the alleys  
22 that we determined were that deep. We felt we would  
23 go with visual criteria, and then pave over it. That  
24 way, if there was lead left behind that was over 500

1 parts per million, we would pave over it. Therefore,  
2 providing a barrier, and then also have to maintain  
3 that to keep that barrier. What we found when were  
4 cleaning up the alleys in Venice is that most of the  
5 contamination was only in the top 18 inches, and then  
6 within the next six inches for a total of two feet of  
7 depth. We could get down below 500 parts per million.  
8 So we signed the issue of explanation of significant  
9 differences to allow us to cleanup these alleys and  
10 parking lots once and for all. We wouldn't have to  
11 come back, and continue to maintain the cover over  
12 that. So we did do that one change in the remedy.

13 What we're talking about today is through  
14 a court agreement, EPA is allowed to open public  
15 comment area for residential cleanup levels, and we've  
16 looked at the current information, including a blood  
17 study that was conducted by Illinois Department of  
18 Public Health, and using this current information,  
19 which is run with the Biokinetic model, again, which  
20 is a tool we use to calculate a cleanup level for, in  
21 this case, lead in residential soil, and we have again  
22 recommended that we just stick with the 500 parts per  
23 million cleanup level. We are entertaining, depending  
24 on comments, though, we will make a decision, as far



1 as whether we will stick with 500, or change that  
2 level at the end of the public comment period.

3 Currently, we have a request for an  
4 extension of the public comment period, and we've been  
5 granted that. So it will run into December 14 at this  
6 point. Then just to get on with what is some of what  
7 is left after December 14, if we, the EPA actually  
8 changes the cleanup level of residential soil  
9 substantially, we will have to do what is known as a  
10 Record of Decision Amendment. And if we don't, we  
11 will have to write some type of document that says we  
12 are sticking with 500 parts per million. In either  
13 case, we will have a responsiveness summary which will  
14 address all of the comments we have received during  
15 the public comment period.

16 The other things that are coming up in  
17 1995 are putting out a proposed plan for remediation  
18 as to the Taracorp, the ground water, the remaining  
19 battery case material areas. And the reason we didn't  
20 do that yet is that we've got to a certain point where  
21 we felt we were ready to make a decision, which would  
22 affect the Taracorp pile and ground water.

23 we did a pilot study to see whether it  
24 was possible to solidify the Taracorp pile. By

1 solidifying it, we would then render it non-hazardous  
2 under the solid waste laws, and could take it to a  
3 land fill at a much lower cost. What the pilot study  
4 showed is, yes, we could solidify it, but it brought  
5 up more questions that we did not have answers for,  
6 such as what is the density of the pile. Because of  
7 the old study that NL Industries did back in '85  
8 through '88 showed the density of the pile a 2.94.  
9 what that means, when you take a pile, you know,  
10 hazardous waste pile like this, and then solidify it  
11 to take it to a land fill, the land fill will charge  
12 you based on tonnage. We know that the pile is  
13 roughly 85,000 cubic yards, but the density will tell  
14 us how many tons that translates to. And when we did  
15 our pilot study, we found that density of 1.55.  
16 That's roughly half of the density that we had assumed  
17 previously. What that all translates to is when you  
18 take it to a land fill and use the lower number of  
19 1.55 it's a seven million dollar cleanup. So we need  
20 to actually do a physical determination of the density  
21 so that we can get the best cost estimate possible,  
22 and make a decision on this. And we also need to  
23 determine some other parameters to see whether the  
24 Taracorp pile can be processed in a secondary smelter.

1                   So at this point we are going to conduct  
2                   some pilot studies in the next few months, and then  
3                   we'll come back and propose remedies for the Taracorp  
4                   pile, ground water, and remaining battery case  
5                   material. We already have a remedy on the books for  
6                   the Taracorp pile and the battery case material. What  
7                   we're doing is reexamining that, and seeing whether we  
8                   need to change that. The primary reason for looking  
9                   at the Taracorp pile again is to decide if the ground  
10                  water contamination that we set out in the original  
11                  decision, there was no detected ground water  
12                  contamination, though. Then when we realized that  
13                  existed, it may be appropriate to do something  
14                  different with the pile. That's what we will be  
15                  doing.

16                 And with respect to the battery case  
17                 materials, what is different now than back in 1990 is  
18                 that there is so many of them. When NL Industries did  
19                 their study, they only found four or five alleys and  
20                 areas in Eagle Park that needed to be remediated. We  
21                 took a quick look around before we rendered a decision  
22                 signed it, and thought it might be more like 18. When  
23                 we got in there, and out in Venice and Eagle Park and  
24                 had all of the neighbors coming up to us, telling us,

1 'Boy, the way it's in my yard, as well,' we've now  
2 found probably over 70 locations. So we are  
3 reevaluating that, because it's going to get very  
4 expensive to continue to remove the battery case  
5 materials and take them off-site. So we're examining  
6 whether to continue to do that, or whether to do some  
7 type of removal and/or paving combination; just maybe  
8 pave over some of the ways that are not as highly  
9 contaminated.

10 That is basically my presentation. Pat  
11 will go into the basis for the residential soil  
12 cleanup program in further detail now.

13 MS. VANLEEUEWEN: As Brad told you, in  
14 order to reevaluate the cleanup level at the NL  
15 Taracorp site, we provided additional information in  
16 the library, in the repository for you. There is a  
17 lot more information on the health effects of lead.  
18 We welcome you to go down and look at it. You may  
19 find something that is of interest that you didn't see  
20 before, and will give you more knowledge about lead  
21 poison. There is also a copy of the blood lead study  
22 done by the Illinois Department of Public Health in  
23 the repository, and EPA's comments on that study,  
24 which I am not going to talk about today.

1                   There is a report, it's a very small  
2                   report, and I understand it's disappeared from the  
3                   file, but we will replace it again tomorrow. It's a  
4                   primary reassessment of the data that was collected  
5                   from the lead study that was prepared by Allen Marcus,  
6                   and he used a biokinetic model, which I am going to  
7                   talk about a little bit today so that you understand  
8                   what we are doing. This isn't just a black box used  
9                   to determine a cleanup level. That report gives you  
10                  some of the results of his reanalysis of the data from  
11                  Granite City, and the surrounding areas.

12                 A little bit of background, as you know,  
13                 the health risks are evaluated by the measure of the  
14                 lead level in the blood of children. And we measure  
15                 the blood level, and it's an indication of recent  
16                 exposure to lead, and it's widely used in the medical  
17                 arena to tell us whether there is any adverse health  
18                 effects. Most of the health effects from lead have  
19                 been correlated with some level of lead in the blood.  
20                 So by knowing that level, we can give you some idea of  
21                 what health effects to expect.

22                 The health effects that we're concerned  
23                 about that have been shown to be associated with blood  
24                 lead concentration at or above the potential are at 10

1 micrograms per decaliter is the level that both EPA  
2 and Center for Disease Control have put in as their  
3 level of concern. The chances that children will have  
4 blood lead levels greater than 10 micrograms per  
5 decaliter is of great interest to people like myself  
6 and risk assessors. What I try to do is to determine  
7 if we have contaminants on the site, whether we're  
8 going to have any adverse health effects. And so what  
9 I do is I use the blood lead level and the chances  
10 that a child will have a level below 10.

11 Okay. There is a couple different ways  
12 that you can determine whether there is a problem.  
13 You can take blood measurements in children. If you  
14 are trying to assess -- You can only assess the  
15 properties where the lead children are living. You  
16 can't get an assessment of the properties that don't  
17 have children, because obviously there aren't any kids  
18 to measure. So our concern at EPA is to look at  
19 whether there is a potential for an adverse health  
20 effect, if someone should move into that property  
21 tomorrow or next week or next year, either buy the  
22 property and move in with small children, or rent the  
23 property. And one of the ways we do that is we do  
24 something called a model. A model that the

1 Environmental Protection Agency is using is called  
2 Integrated Exposure Uptake Biokinetic model for lead  
3 in children. It's called IEUB model, and it works on  
4 a home computer. And the model is a tool that a risk  
5 assessor uses just like any models you would use to  
6 build something. And by running a model a number of  
7 times I can build a description of what might happen  
8 in an individual yard in an individual community.  
9 It's used to look at the lead exposure from all  
10 sources, air, water, soil, dust, paint, if we choose  
11 to include paint, and generate a series of possible  
12 blood levels that a hypothetical child could have, if  
13 he was exposed to all of these different sources of  
14 lead.

15 So the model is used to make a  
16 prediction, and it has four different parts. The  
17 first is the exposure.

18 MR. PALCHEFF: Can I ask you to look at  
19 your screen, instead of that? Move over so we can  
20 see. You're blocking us.

21 MS. VANLEEUWEN: Sure.

22 MR. PALCHEFF: You can use that just as  
23 well.

24 MS. VANLEEUWEN: I'm over here. I just

1 didn't want to talk to the screen, which is the reason  
2 why I wasn't doing that.

3 The first part of the model looks at all  
4 of the different ways that a child can be exposed. It  
5 puts in a value for the amount of lead that is in  
6 water, the amount of lead that is in air, the amount  
7 of lead that is in the soil, amount of lead in the  
8 dust.

9 MS. GRIGGS: How long does it take for a  
10 child to be exposed to the air?

11 MS. VANLEEUEWEN: We are assuming that  
12 this is at least a three-month exposure. We cannot do  
13 any calculation in less than three months. Okay. But  
14 the model assumes that the child is exposed for a long  
15 period of time. It's very difficult to make any  
16 prediction about their short-term exposure, because  
17 the lead goes into the body and secretes, and then it  
18 comes out. It's repeated exposure that we worry  
19 about. Unless the child would eat a great deal of  
20 lead, if he would eat paint chips, a lot of paint,  
21 then you might worry about that as a one-time  
22 exposure, where there would be a great amount. But in  
23 normal life, it's just the small amounts of dust that  
24 a child would eat every day that you wouldn't even



1 notice that are very, very dangerous.

2 So what we do is we look at all of these  
3 amounts that you would get in on the dust that would  
4 take to a child's hands or toys. And from, you know,  
5 the soil, things outside that we brought into the  
6 house. We look at the amount of dust that comes in  
7 from the outside to the inside. We look at the soil  
8 to the inside dust ratio, and we put all of this data  
9 into the model for an individual yard.

10 The uptake part is after you eat some of  
11 the dust, or breathe some of the dust, how much is  
12 actually absorbed into the blood stream. The  
13 biokinetic portion of the model, looks at it after the  
14 lead gets into the blood, what happens to it in the  
15 body, and we have 250 different equations which  
16 describe how it gets from the body level to the blood  
17 into the bone, where it's ultimately stored. How it  
18 goes in the other tissues, how it goes in the brain  
19 can cause some of the health effects that we are  
20 worrying about, how quickly it's excreted through  
21 urine, sweat, feces, all of those things are modeled  
22 in the model. And then there is a different value for  
23 each year of the child's age from the first year  
24 through the seventh year of life. So there is six

different values in there. So for the first year we use one value for the amount that the child has. The second year, we use a second, a different value for the child age one to two, for child age two to three. Then the last part of the model we have a lot of the statistical programs in there so that we can do things with the data once we've collected it.

Okay. This is just a visual explanation of pretty much what I have said. It just shows it in pictures. We look at dust, soil, and the paint, and diet, and water as a source of lead. We look at how much lead is in each one of those things, how much lead in the air that gets into the lung, is breathed. These things get in the stomach, and then ultimately all of that lead gets absorbed into the blood. And then from the blood, it goes into the different kinds of bones; one is the deep bone, one is the surface bone, the soft bones gets into the red blood cells gets in the kidneys, gets into other tissues, gets into the liver. Then we also look at what the diet is in the stomach, and into the intestines, how much is excreted, and how much is there. That is pretty much what the model does. It looks at how that lead moves through a child's body from seven years of a child's

1 life.

2 The model can be applied in a number of  
3 different ways, and each way that you apply the model,  
4 you get a slightly different risk estimate. And  
5 basically, most of the models for the Supertund site  
6 is to consider that we are looking at an individual  
7 site. Each individual site is typically a child's  
8 back yard, and in his own environment. We're trying  
9 to guess what a child does. This is a hypothetical  
10 child, and so it gives us an idea of how much lead  
11 could get into the child's body, if he did all of  
12 these things. And we considered surrounding yards as  
13 a basic unit, because that's what most preschool  
14 children, where they spend most of their time. We can  
15 also put in day care or school, if we know the child  
16 is in day care during the day. And, of course, that  
17 is per unit support for us. What we're going to get  
18 is the basis surface of an individual yard.

19 Again, here is little diagram that shows  
20 the different ways that we can use this. I'll show it  
21 a little bit at a time. We can look at one child, how  
22 that one child is exposed. When I said it gives us an  
23 a idea of what blood lead level could be, it doesn't  
24 give us a number, it gives us a whole series of

1 numbers, because it has a lot of the different  
2 variables in there that take into account the fact  
3 that children are different, and they don't all gain  
4 weight at the same rate. They don't grow at the same  
5 rate. They don't absorb lead or excrete lead at the  
6 same rate, either. So it gives us a little curve.  
7 And what that means is it's most likely that the child  
8 does this, but if a child, an individual child could  
9 do anything on that curve, the blood lead level could  
10 be this low, or it could be that high. Most kids will  
11 be somewhere right in here, where the curve is the  
12 highest.

13 Or we can look at -- use the model to  
14 look at a number of children that live in the same  
15 building, a single house, or an apartment house.  
16 Those children might be different ages. And so we  
17 would start by looking at the lead going into their  
18 body at different ages, because they would be starting  
19 out at different ages initially, eating different  
20 amounts of food, growing at different rates and  
21 everything. So that would change the amount of lead  
22 that would go into the body. We can look at different  
23 children at different neighborhoods, or a lot of  
24 different sites with different exposures, and you can

1 see that children might be different. The shapes  
2 would be different, or we could look at different  
3 areas. This is especially in the Granite City area,  
4 and we might see that the children who live in Venice  
5 might be exposed to battery casing chips, where the  
6 kids who lived in Granite City might be eating smelter  
7 dust. So we can look at both of them. We can say,  
8 'Well, what does this mean for the whole community?'  
9 We can combine them, or we can look at them  
10 separately.

11 This is real confusing, I know, but this  
12 is what it would look like if we were to run it in the  
13 computer. The computer would give us a series of  
14 curves, and those curves would be how much lead we  
15 would be likely to -- what the blood lead level would  
16 be likely to be, if we were to consider different  
17 intakes of lead in soil, and in dust. And in this  
18 case, we used it to show that if we had a soil lead  
19 level of 500 parts per million, but the lead that got  
20 into the house changed, we would get curves that would  
21 have different shapes. The reason why I show you that  
22 is that, in this case, you could see if the dust level  
23 was real low, but the soil level was high, most of the  
24 kids would have blood lead levels less than 10, and

1 would be on this side of 10. And then as the dust  
2 level started going up in the house, then it would  
3 start to shift. You would see that being more likely  
4 for a child to have blood lead level over 10. So,  
5 these soil dust correlations are important, too.

6 MS. ANDRIA: The vertical indicates a --  
7 that's an indication of the number?

8 MS. VANLEEUEWEN: Yeah. Or for a single  
9 child, the property:

10 What we can do is we can take -- we can  
11 run the curve like this for each child in the  
12 community. Say we had 500 yards and we try to get  
13 what this shape of this curve would be for all 500  
14 kids, and then we take and plot it different ways. We  
15 would plot it in this kind of a plat, and what this  
16 plat should show is the actual percentage of the kids.  
17 It says tracks of the kids. The track of all of them,  
18 meaning that 50 percent would be, or .5 would be five  
19 percent or half the kids. And at the bottom it says  
20 the predicted blood lead concentration, and we could  
21 take any point on this and say if we were worried  
22 about 10 micrograms to decaliter, we could look at how  
23 many kids were above that 10, and it would be all of  
24 these. Okay? Then we could have the computer count

1       those. That's actually what we do.

2               And you will see in our report that there  
3       is a report of the number of kids that we could get in  
4       each area to have blood lead levels that are greater  
5       than 10, and that's how we did it. We make curves  
6       like this. We have the computer count how many were  
7       above 10, how many were above 15, how many where above  
8       20, how many we expect to be above 25. At 25 you  
9       would have the child going into the doctor to have  
10       some treatment.

11               Then the last thing I was going to show  
12       you is does the model work, is it real. These  
13       triangles, the upward ones are the predicted ones from  
14       our model. You can see it's this line, and the ones  
15       that are inverted are the ones that we actually  
16       observed for the children that we did blood sampling,  
17       and tested their blood lead level. You can see those  
18       are very, very similar. So the model predicts pretty  
19       well the kind of blood leads that we measure, and this  
20       was very good agreement at this site.

21               The reason why we use the model, as I  
22       said before, is we don't want to have to wait until  
23       the kids are exposed to lead to determine whether  
24       there has been a problem. We want to be able to look

1 at the levels of the lead in the soil, in the dust, in  
2 the air, and the water, and determine whether the kids  
3 are going to be affected by the lead. If they are  
4 going to have a problem, we want to be able to clean  
5 that up. If you have any questions about that --

6 MR. GLASPER: On the model you just  
7 showed us, these are projections. I mean, how much  
8 actually open forum was there, actually? Let me give  
9 you an example. You were talking about the model  
10 that did these projections. Were there kids actually  
11 tested in Eagle Park Acres, as far as blood drawn, and  
12 actual levels tested to see how much lead was in their  
13 system?

14 MS. VANLEEUEWEN: That's an interesting  
15 question, because the Environmental Protection Agency  
16 has just gotten the data set from the Illinois  
17 Department of Public Health. Okay. And we know that  
18 there were children tested everywhere. I believe they  
19 were tested in Venice. I believe they were tested in  
20 Eagle Park Acres. However, the data they gave us does  
21 not give us a location. They gave us a data set that  
22 told us how far they lived from the smelter. So I  
23 can't tell you how many kids were tested in Eagle Park  
24 Acres, and how many kids had a blood lead level



1 greater than 10 or 15 or 20. I just know that there  
2 were kids that were tested out there.

3 MR. GLASPER: I guess my next question is  
4 this. I grew up in and around the Eagle Park area.  
5 Not so much in Eagle Park, but I can remember walking  
6 on those streets out there, and all those casings were  
7 on those streets. Now, those streets were all  
8 blacktop. Now, it's almost -- What I am trying to say  
9 is this is very similar to asbestos, where the  
10 government says that you either remove it, or you can  
11 encapsulate it. Now, the streets are blacktopped now,  
12 and you keep talking about the kids we're talking  
13 about. What about people who were exposed at that  
14 time, who actually walked those streets? Is there  
15 money being put up for prevention or treatment? I  
16 mean, I'm 44. I can remember as a little kid I walked  
17 through parking lots or the streets in Eagle Park.  
18 I've seen first, second, third generations of a family  
19 that are still there. Now, how much of those people  
20 did get exposed to, though, who were actually there  
21 when there was no blacktop and dust was everywhere, and  
22 people went down the streets on summer day, 90  
23 degrees, and what is being done for those people?

24 MR. PALCHEFF: Did you have your blood

1       tested?

2                   MR. GLASPER: I individually did, just  
3       for medical.

4                   MR. PALCHEFF: What was your level, do  
5       you know?

6                   MR. GLASPER: Nothing to alarm me. I did  
7       go through my physician, because I did it in a regular  
8       checkup. But for those people who don't get a  
9       checkup, and to me, right now we're worrying about  
10      kids right now as opposed to, you know the question I  
11      was asking in the forum last year --

12                  MS. VANLEEUEWEN: There is different  
13      health effects in adults than there are in children.  
14      The reason why we are so worried about the children is  
15      it affects their ability to learn. It affects their  
16      language skills, and it affects their attention span  
17      so that they can't pay attention in school. And so  
18      the kids who have really been affected by lead are  
19      having a great deal of problems learning, and then  
20      they have trouble absorbing information, getting jobs  
21      later in life and so this goes through you with your  
22      whole life.

23                  In the adult, it affects high blood  
24      pressure. In women, they may have children with low

1 birth weight. The babies that are born are born with  
2 less chance when they are first born. We've seen some  
3 infertility in men. And so there are health effects  
4 in adults, as well. But the first seven years  
5 actually in life, it's about one to about three years  
6 old when a child is growing very rapidly, able to take  
7 up more lead, and absorb it much more than an adult  
8 would absorb it.

9 MR. GLASPER: This is my third question  
10 or comment. There are risks a little bit earlier.  
11 Would the condition you have now where it is not so  
12 much exposed as far as people actually riding, walking  
13 on it, this, that, and the other going back to her  
14 question, how much of exposure presents a hazard to an  
15 individual today? Now, specifically, how much -- How  
16 long does a person get ill? Is it 72 hours? Most  
17 things have an incubation period. You mentioned four  
18 months.

19 MS. VANLEEUVEN: I said that's the  
20 minimum that we could even measure any changes. Less  
21 than that's -- It's going in at one rate, and going  
22 out at another rate, and you want to measure -- Look  
23 at the blood lead. Okay. You wouldn't want to  
24 measure the blood lead just after an exposure, because

1 two or three days later, it could be lower again.

2 Okay. We are looking at long-term, constant exposure  
3 as being the thing that is the most worrisome here.

4 MR. GLASPER: I think that to me, the one  
5 reason all of this is important, I'm involved in the  
6 Community School Board, and kids come to school, you  
7 have to have the immunization records. To me, that  
8 should be a critical thing, as far as testing the  
9 exact amount, how much lead exposure that child has  
10 when they enter school.

11 MS. VANLEEUEWEN: That's right. And most  
12 of the kids now do get tested with lead level before  
13 they start school. The reason for that is to try to  
14 identify the children that might have higher levels of  
15 lead. If it's very high, they would do some medical  
16 intervention. They would actually try to clean it out  
17 of the body, if it was really high. If it's lower  
18 than that, and they see a lot of kids in a particular  
19 area that have lead levels that are above 10, they  
20 would want to go into the neighborhood and say, 'Is  
21 there a problem in this area? Like is there lead in  
22 the soil? Then we have to try to get that soil  
23 cleaned up, because we have a lot of kids here that  
24 are being exposed to lead.' So we are using the blood

1 lead level as an indication, and they are doing that  
2 in the schools when the kids start school now. It's  
3 new in Illinois.

4 MR. GLASPER: Not only that, but on top  
5 of that, if I'm not mistaken, I think in high school  
6 you have another immunization examination. So,  
7 it's --

8 MS. VANLEEUEWEN: As you get older, for  
9 one thing, you don't absorb lead as much as when  
10 you're growing. You have a need for calcium to make  
11 your bones, and so you absorb lead in the same way you  
12 absorb the calcium. So children absorb a lot more  
13 lead, because they need it to make -- They need  
14 calcium to make bone. So they absorb lead, too. As  
15 an adult, you don't need as much calcium, and you  
16 aren't able to absorb the lead as easily as you would  
17 as a child. Also, when you become an adult, some of  
18 that lead that you have absorbed and gotten into your  
19 body when you were younger -- Remember, I showed you  
20 there were two kind of bones? One of those bones is a  
21 deep bone. Now, even though you have a bone, what is  
22 on the surface of the bone keeps getting, goes back  
23 into the system. Okay. It gets deabsorbed. It goes  
24 back into the tissue, and it goes back into the blood,

1 and circulates through your body again. That's what  
2 is on the surface bone. The stuff that's in your deep  
3 bones stays there. Okay. And it has layers that form  
4 over it so after a while that lead that you got as a  
5 child may be in your deep bones now, and it's no  
6 longer able to get out. So it still may be in your  
7 body, but the lead that you got as a child may not be  
8 causing you too much problems as an adult.

9 Now, if you are still -- If you were  
10 working at a company and you were still getting  
11 lead -- Say you were doing soldering, and you were  
12 still being exposed to lead, you would still have new  
13 lead coming into your body. Okay. And that would be  
14 in your blood. That would be in the surface bones,  
15 and that could cause a problem.

16 MR. GLASPER: How much, as far as your  
17 home can contribute to this, as far as -- By code, you  
18 can't solder pipes with lead anymore, and lead  
19 solders, just solder used for plumbing it's lead-free  
20 now. But as far as older homes are concerned, is the  
21 exposure amount minimal, as far as what homes have?  
22 Many, many years ago they used lead in soldering  
23 joints.

24 MS. VANLEEuwEN: I'm sure here -- We all

are from Chicago, and up until a few years ago Chicago had a code where you could only put in lead soldering for pipes. And so we have been exposed to lead for a long time in water. What happens to the lead in the pipes where those joints are soldered, it becomes -- I don't know the word to use, but it becomes coated so that lead is not absorbed as easily. And, as you know, now we have regulations where we have to measure the gases that are in the water. There's gases, and we have to see how acidic it is. What we are really worrying about is that acid in the water of such a level that it's able to dissolve the lead in your pipes back out again. And so now we have to have these in our water, see if it can dissolve that lead out. But if you were to put in new plumbing, okay, some new faucets, you could be getting a greater amount of lead in brand new plumbing than you would in old plumbing that was coated and stayed coated. If you have pipes that bang and knock a lot, it could be that you are not getting coating. You could have some lead in your water. You have to drink a lot of water. So for kids, the water is not usually the major concern. It's usually the amount of lead that they get in the dust that's on their hands. Kids put their

1 fingers in their mouth, they put toes in their mouth.  
2 They drop their piece of candy, and pick it up and put  
3 it back in their mouth before you see them. That is  
4 how they get their lead.

5 We did a sampling where in one of the  
6 studies they dropped a peanut butter sandwich in the  
7 dirt, and picked it up again, and you wouldn't believe  
8 how much dirt was on that. Kids like to pop that  
9 right back in their mouth before you can grab it.  
10 That's what we worry about.

11 MR. GLASPER: Those amounts are just  
12 really minimal amounts, as far as --

13 MS. VANLEEUWEN: It is a source. It  
14 contributes to it. It's all of it together that  
15 really causes the effect, but we have done things  
16 about controlling the lead in the air, and we've done  
17 things to control the lead in the water. Okay. And  
18 the soil and dust remain a problem, and even cleaning  
19 in our houses. As much as you clean it, if you have  
20 got lead in the soil, kids track that dirt into the  
21 house on their shoes, you know, and the dogs bring it  
22 in. It's going to come in on their toys, and you end  
23 up with that lead in the house again. So you can't  
24 get rid of it, unless you get it out of the soil.



1 MR. PALCHEFF: I want to follow up on his  
2 question about exposure as a child and exposure as an  
3 adult. No one knows that or remembers that he played  
4 with this stuff when he was a child. It was out  
5 there. You're talking about it's in the deep bone.  
6 Can that person be tested? Is it a painful test? Is  
7 it too expensive? Is it accurate?

8 MS. VANLEEUWEN: There is a test that  
9 they use. It's very -- There is even one they use to  
10 test the lead in the paint on the walls. It's not  
11 real accurate. They are still working on it. You  
12 have to -- It's hard to do that test. You have to  
13 remain perfectly still. There are other minerals in  
14 the bone that can interfere with that test. There are  
15 a lot of people who are looking at that issue, and  
16 trying to decide whether it can be useful. The reason  
17 why we don't do it very often, either that, or looking  
18 at the amount of blood in teeth have lead also, all of  
19 the people have looked at lead in the teeth and hair  
20 is because we have a pretty good idea of how the blood  
21 lead levels correlate with the health effects, but we  
22 don't know how the level in the bone, the levels in  
23 the teeth, or the levels in the hair could reflect on  
24 people. They are trying to look at how the bone

1 measurements correlates with the blood measurements,  
2 how the bone measurements correlates with the teeth  
3 measurements, and how those correlate with the blood  
4 measurements. Even though we have values, we wouldn't  
5 know what to do with it. Okay. We wouldn't know what  
6 it represents.

7 MR. PALCHEFF: What is the test called?  
8 Where would we get it?

9 MS. VANLEEUVEN: It's an eccho --

10 MR. PALCHEFF: Who administers it?

11 MS. VANLEEUVEN: It's very similar to  
12 what is done to look at the surface lead.

13 MS. VANLEEUVEN: There are a couple  
14 centers that have been doing research on bone lead,  
15 and I think I have put some of those papers in the  
16 Administrative Record. So if you want to look at some  
17 of those studies, and get an idea of who some of the  
18 people who are doing those studies, that would be a  
19 good place to go. Go ahead and go to the library and  
20 look at those papers.

21 MR. PALCHEFF: But for the most part, the  
22 people who have been exposed to the heavy doses of  
23 that as children, there are --

24 MS. VANLEEUVEN: Sometimes, like during

1 pregnancy, now the lead can be mobilized again,  
2 because the calcium, a woman's calcium in her bone is  
3 used to build this skeleton for the new baby. In the  
4 process, mobilization can mobilize the lead as well.  
5 So there are instances, and during aging where you  
6 start to lose bone mass, you can start to have some of  
7 the lead come back into the blood stream, but that's  
8 not such a large source.

9 MR. PALCHEF: It's more of a nuisance?

10 MR. GLASPER: Another question along the  
11 line of what they are saying. You are saying that you  
12 have the bone absorbing so much lead and that, how do  
13 you determine what percentage of the lead in the  
14 system comes from air, comes from water, comes from  
15 soil, et cetera?

16 MS. VANLEEUEWEN: With the model.

17 MR. GLASPER: Through your model?

18 MS. VANLEEUEWEN: What we do is we use the  
19 measures that we have. This will measure the air  
20 level, the water level, soil, and the dust, and then  
21 we use each value. That is -- That's why there is --  
22 This Administrative Record has about a thousand, or  
23 many papers, because the reason why some of those  
24 papers are in there is that values that we have used

1 in the model come from those papers. That's values  
2 that people have determined by scientific studies and  
3 so we use the data for the equations, the tracking  
4 the, the coefficients, all those numbers for it come  
5 from the minutiae of the study in children, and  
6 sometimes in baboons.

7 MR. GLASPER: I think what I'm driving at  
8 is in each area that is going to be different? For  
9 example, you are working with 500 parts per million  
10 soil, but the people that got the lead in this area  
11 may not have got it from soil. They might have got it  
12 from air, might have got it from lead paint. And so  
13 you are basing your cleanup on the soil, and that may  
14 not be the culprit?

15 MS. VANLEEUEWEN: In our model we have not  
16 included lead paint. We have only looked at the  
17 environmental sources of lead. The reason for that is  
18 we need to determine whether there is any risk to the  
19 children from the environmental sources, because we  
20 have the ability. And from experience, we know that  
21 from environmental sources -- We realize that the  
22 children may also be getting lead from paint, as well.  
23 Okay. But we have not included paint as a source. So  
24 any lead that the children are getting from paint is

1 in addition to what they are getting. So when you see  
2 a report that says 16 percent of the kids overall have  
3 blood lead levels greater than 10, that's just from  
4 the environmental sources.

5 MR. PALCHEFF: It's known medically and  
6 any other way, engineering firms, that you look at  
7 longevity as to determine the effects on persons. For  
8 example, you are saying that the lead in the babies or  
9 kids can cause retardation and so on. I myself live  
10 within two blocks of the lead smelter plant in  
11 Madison, and I played in the soil. I still eat  
12 vegetables from the soil. I am a graduate, an  
13 engineer with several Master's degrees, et cetera. So  
14 your effect, in other words, from the lead, I should  
15 have been really affected. In our area where I lived  
16 is the same situation. Nobody is known to have had  
17 any physical defects from the lead that has been  
18 raised in that area. And I have had my blood level  
19 tested recently. It's less than three and a half.

20 MS. VANLEEUEWEN: It's three and an half  
21 plus or minus five, because it's not --

22 MR. PALCHEFF: But that's neither here  
23 nor there.

24 MS. VANLEEUEWEN: Scott Clark, who you may

1 know, and Dr. Brownshein from the University of  
2 Cincinatti, has been down here a number of times.  
3 Scott Clark is another person who works with him on  
4 his studies. Scott Clark and I have kind of a  
5 standing joke between us. We had such a hard time  
6 getting through school, just think how easy it we had  
7 been -- had not grown up in an area like that. None  
8 of us know how we've been affected. We can't go back  
9 and tell how we've been affected. We can see --  
10 Looking at children, we can see --

11 MR. PALCHEFF: That's what I am saying.  
12 In order to know what the effects are, we should be  
13 your model to determine how much did it affect us. We  
14 already went through that phase. We went through it  
15 when it was real critical, and we weren't affected.  
16 Now, you are saying that the kids are going to be  
17 affected. There is no more smelter, but the left over  
18 smelter is affecting them more than it affected us  
19 that breathed the air and the soil.

20 MS. VANLEEUVEN: I don't know if it is.  
21 I know I had the kind of mother that probably a piece  
22 of dirt never got in my mouth. She washed my hands  
23 constantly. So maybe that helped a little, but that's  
24 what we all had. Well, I had a good diet. That's

1        what we tell parents now to be very careful in washing  
2        their kids' hands, as much as you can, providing them  
3        with a good diet, because that's preventive.

4                    MR. PALCHEFF: Our parents did that.  
5        Don't forget, we were raised during the depression,  
6        which is the worse situation as far as cleanliness.  
7        That's before your time. People don't know that  
8        depression people, in fact, that you ate what you  
9        could get. That's all you could have. Didn't have  
10       money or anything. You had to wash, try to be clean.  
11       One thing our people did. Not everybody did that.  
12       Everybody didn't have money for soap, according to the  
13       time and means.

14                   MS. VANLEEUVEN: Not everyone you went to  
15       school with became an engineer, or had the ability to  
16       do the math. Okay. And so, as we said, even like 10  
17       is not a magic number. If your blood lead level is  
18       10, that doesn't mean that you're safe. There is  
19       going to be kids who have blood lead level of eight  
20       who are going to be affected. Some kids who have a  
21       level of 12 who are not going to be affected. Okay.  
22       Because not everyone behaves the same. As I said, we  
23       don't grow at the same rate. They don't gain weight  
24       at the same rate. Not everybody is affected

1 identically as a distribution of the facts, and you  
2 know, maybe not everyone is as lucky as we need to be.

3 MR. PALCHEFF: I'm suggesting that you  
4 have -- What you might have to do what, you might,  
5 maybe you should do is look at the people that live in  
6 areas where there was worse, as far as lead.

7 MS. VANLEEUEWEN: We can't do. The  
8 studies -- We don't know what you were exposed to.

9 MR. PALCHEFF: I am saying you're  
10 determining what I'm exposed to now in the same area.  
11 If I were a kid, obviously, I was exposed to something  
12 worse at the time that the smelter was in operation

13 MS. VANLEEUEWEN: I don't know that.

14 MR. PALCHEFF: It had to be, if you are  
15 saying it's from the smelter.

16 MS. VANLEEUEWEN: I don't know, you know,  
17 what other things may have affected you.

18 MR. PALCHEFF: We had dirt roads and  
19 everything. We played tackle football in it. I'm  
20 talking about eating mud. We used to bake potatoes  
21 with it around them. That's the way we did it.

22 MS. VANLEEUEWEN: It's those years  
23 between. The really critical time is between the time  
24 a child is one to three and how much supervision, and



1       how much supervision when your were playing and maybe  
2       ate mud pies, you were eight years and not three years  
3       old, or two years old. I don't know. Maybe you don't  
4       know, either.

5               MR. PALCHEFF: The other thing, in  
6       Madison for example, the Illinois EPA did a study to  
7       determine what they thought the lead levels were in  
8       different areas. The highest lead level which they  
9       gave you where it was is on Market Street and 2nd  
10      Street not on 13th, 14th, 12th Street in Madison, or  
11      in front of 15th and 16th, and why? Because of lead  
12      paint. The reason I'm bringing that up, you are  
13      saying you are worried about kids absorbing lead in  
14      Eagle Park may not have been affected as much by  
15      batteries as by lead paint.

16             MS. VANLEEUEWEN: We do see high levels  
17      out in rings. We don't know whether that's very high  
18      level or battery casing chips. Some of those battery  
19      casing chips gave levels in yards that were real high,  
20      much higher than the smelter. When you are looking at  
21      it, you see a curve that goes like that, and it goes  
22      up again. Now, I don't know what these exposures are  
23      out there. When we model, we don't include lead  
24      paint. We just include the data for the soil and

1 dust. We still get the blip. That worries me. I  
2 don't know that it's not paint.

3 MR. PALCHEFF: I am going a step further.  
4 Market and 2nd Street is an example. Nation-wide, it  
5 you really check all over the country, you don't have  
6 to be there lead or anybody else high level or this  
7 from lead paint, and then if you're going to do that,  
8 are you going to have funds to cleanup everything?  
9 No. You can't afford it.

10 MS. VANLEEUEWEN: The projects that we did  
11 using the model does not include paint. It is only  
12 projects modeled on environmental lead. We can show  
13 that very high levels, like 29 percent of the kids,  
14 those kids don't live there now, but they might live  
15 there next week or next year, but we would expect to  
16 have 29 percent of those properties which show kids  
17 with high lead levels, if kids lived in all of those  
18 properties. That is very worrisome. That means that  
19 something has to be done to clean up those yards.

20 MR. PALCHEFF: Have you recently found  
21 that people were mentally retarded from these cities  
22 or areas?

23 MS. VANLEEUEWEN: Not mentally retarded.  
24 We found that kids have attention span dericits. They

1 have problems with language. They have all kinds of  
2 learning problems. Okay. And there are quite a  
3 number of documented data in the areas people come up  
4 to me at different times and said, 'I have medical  
5 reports. My doctor suggested it's due to the lead.'  
6 I don't know. I'm not a physician. I don't know.

7 MR. PALCHEFF: The reason I say that is  
8 if there are other -- Like when we were kids, our  
9 parents, our mother stayed home, and the father went  
10 out and did the -- earned a living. Nowadays both are  
11 out. So the kids are left alone. And you are saying  
12 by learning it may be psychological effects of not  
13 having proper parental guidance, and instead of the  
14 effects of lead. I am saying that there is more than  
15 one cause for these deficits.

16 MS. VANLEEUEWEN: Absolutely.

17 MR. PALCHEFF: We're not -- In other  
18 words, what I'm seeing here is I am not seeing enough  
19 wide evaluation as to what, you know, really caused  
20 it. Okay. The person is affected, but now let's go  
21 down and see why he really was affected, or see  
22 whatever it may be.

23 MS. VANLEEUEWEN: Let me summarize it then  
24 in two points, and the first point is the reason why

1 we have this record in the library is we have a great  
2 multitude of literature that suggests at certain blood  
3 lead levels in children that there are going to be  
4 certain adverse health effects. And those health  
5 effects have been documented, and are pretty widely  
6 accepted by all physicians all over the United States.  
7 They are accepted by EPA, and they are accepted by the  
8 Center of Disease Control, okay, as real, and things  
9 to worry about.

10 The second thing we did was we took the  
11 actual environmental data that we have from the  
12 record, and we modeled it, and we tried to predict  
13 what the children's lead levels would be, and we  
14 predicted that the children would have blood lead  
15 levels in the range of the nature that suggests causes  
16 these health effects. Now, maybe the children aren't  
17 going to play in their backyards. Maybe they aren't  
18 going to get this exposure. There is a potential for  
19 this exposure. Not only the potential for the  
20 children who are there now, but children for all  
21 generation of kids, whoever lives there, to have this  
22 exposure, unless it's eliminated. I don't know  
23 whether that is something that any of us will consider  
24 allowing. All kids should have a chance.

1 MS. PASTOR: Speaking of chances, let's  
2 give someone else a chance to speak. Maybe people are  
3 getting left out of the conversation. Let's make sure  
4 we are including everyone. Are you with us?

5 MR. GLASPER: Do you know the number of  
6 yards you have left to do in Venice?

7 MR. BRADLEY: Yeah. We had a total  
8 number of 72, and we've done about 25. So that leaves  
9 47. But of those 47, some of them tested out below  
10 500 parts per million. So I would say we've got  
11 somewhere around 30 left. What we remains is not as  
12 bad as what we've cleaned up. So many of the ones we  
13 cleaned up over the last couple years were 100,000  
14 parts per million, 70,000, 20,000. What we have left,  
15 with a few exceptions, is below 2,000. It is still  
16 above 500, and we need to address it. We got rid of  
17 the really highly contaminated ones.

18 MR. GLASPER: Do you have the name of the  
19 streets or the addresses, and how many parts?

20 MR. BRADLEY: If you want to come up  
21 afterward, I have some information. If you have a  
22 particular one in mind, I can give you the ruling for  
23 that. What we did, we numbered them. You know, the  
24 alderman and I went around and we numbered them as we

1 came to different alleys: We numbered 1 to 72. So I  
2 don't know exactly what streets correspond to it, but  
3 I can look on the map and give you that, based on a  
4 number.

5 MR. GLASPER: I know where my --

6 MR. BRADLEY: The battery chips?

7 MR. GLASPER: It's been there 10 years.  
8 I didn't know what it was until now.

9 MR. BRADLEY: Which streets?

10 MR. GLASPER: Broadway.

11 MR. BRADLEY: Broadway, and what other  
12 streets?

13 MR. GLASPER: Broadway is the main  
14 street. Where Brown intersects Broadway it is easy to  
15 see the two streets on each side, because our alleys  
16 run perpendicular to Broadway, perpendicular like two  
17 streets like Brown.

18 MR. BRADLEY: A street over, Brown and  
19 Green Street?

20 MR. GLASPER: What is it?

21 MR. BRADLEY: That's right here.

22 MR. GLASPER: The other one is Klein.  
23 Broadway is --

24 MS. PASTOR: We can look on the map.

1 Maybe he can pinpoint it for you. Is that it for you  
2 right now?

3 MR. GLASPER: I have two more questions.  
4 My question goes back to the same question this young  
5 lady stated over here, going back to Eagle Park. They  
6 just recently got their streets paved. It had been a  
7 long time ago, and just like this gentlemen said. I  
8 am sure Eagle Park has to have had more exposure  
9 related directly to lead than people in Granite City,  
10 because I can't remember driving too many streets in  
11 my time without Eagle Park -- Eagle Park didn't have  
12 nothing but those chips. That's all they had. it  
13 hasn't been too long that it's been completely  
14 blacktopped, and it hasn't been that long. And, you  
15 know, what I am trying to say, you know, let me -- I  
16 want to use another situation. We talked about this  
17 asbestos, and there has been a big class action suit  
18 against asbestos. People have gotten thousands of  
19 dollars. 'Did you hear about the money I got? I went  
20 to the doctor. I worked here. He said that I was  
21 exposed to asbestos. I get a lawyer, and I get in in  
22 on the class action, and I get X number of thousands  
23 or dollars.' This happened. It's happening. I am  
24 sure all of you have read about it. All of the people

1       who are exposed to asbestos in a plant. The thing  
2       was, you had to work -- They had a point. You had to  
3       be there so many years you worked there. And  
4       everybody jumped on the band wagon, even guys who  
5       heard about it, about some guys got some money even  
6       got diagnosed, and he said you were exposed. Guys  
7       lawyer gets 18, 20 grand. This gentlemen said what  
8       does he get. He lived next door to the smelter for  
9       how many years? All his life. Now, he goes and he  
10      finds that bone you were talking about is  
11      deteriorating or something, just talking about it.  
12      You do not know, though, who were directly affected by  
13      it. Now, the guy that worked in it, and was exposed  
14      to the asbestos, they said, I think there is a  
15      possibility he may have some problems as far having  
16      kids. Is that true now? I don't know.

17               MS. VANLEEUEWEN: Asbestosis. It causes a  
18      very particular kind of lung cancer, which is --

19               MR. GLASPER: This is the point here.

20               MR. SIEGEL: Are you discussing a class  
21      action suit because of the lead?

22               MR. GLASPER: Well, now we we're taking  
23      about --

24               MS. VANLEEUEWEN: What is the question?



1 MR. GLASPER: I'm talking about the  
2 similar question like this gentlemen said. We still  
3 have not made a standard test for those individuals  
4 who, at this point in their life, were -- how their  
5 bone structure for the guy who was directly exposed to  
6 it, not the children that are five or six years old  
7 right now, but these guys in a class action suit, the  
8 money, or guys who were supposedly exposed to this  
9 stuff the number of years that were supposed to be as  
10 far as what had to be a starting point. You have to  
11 be exposed to it so many years. That's only to go  
12 take an examination.

13 MS. VANLEEUEWEN: I guess that's not  
14 something that we would be likely to know about. Our  
15 agency is the Environmental Protection Agency, and the  
16 reason why we are here is to try to remove the lead  
17 that is in the soil now, and to protect kids, protect  
18 future generations. But this is not the agency that  
19 would be doing any class action suits, or anything of  
20 that sort. It's not something that we do. It's not  
21 one of our --

22 MR. PALCHEFF: I think what he is asking  
23 is what I asked you before about subsequent -- You are  
24 looking at the short-range here. I was talking about,

1 and he is talking about the long-range. Okay. These  
2 kids now is what you're looking at in the soil  
3 exposure from one to seven years. Okay. What's going  
4 to happen to them 10 years from now? We already have  
5 a model for you. Myself, and many of the other  
6 residents that still live in the area. But there is  
7 no assessment as to the effects that it's had on us,  
8 and likely to see any effects, as he is saying  
9 exposure, the exposure to it in Eagle Park. He is  
10 saying, 'Well, how come you are not looking at me,  
11 too? What the heck. My bones suddenly may start  
12 walking down the street, the bones collapse on me,  
13 because they are deteriorated.'

14 MS. VANLEEUEWEN: We haven't seen bone  
15 deterioration from lead. We do see --

16 MR. PALCHEFF: I'm talking about --

17 MS. VANLEEUEWEN: I think that we're  
18 looking at is two things here. What you're talking  
19 about, you're saying I can be a model, because I grew  
20 up here, and if anybody was affected, it was me.  
21 Well, what we don't know is what the exposure was to  
22 you. We don't have any data in that area. You are  
23 saying, 'I'm fine,' and we don't know about your  
24 neighbors, or the others, and the one's that aren't

1 living anymore. We don't know anything about what is  
2 in any bone, et cetera. Well, the Environmental  
3 Protection Agency is here to address what we have  
4 determined to be an exposure problem, potential  
5 problem for exposure to children in future  
6 generations. What we hope we are doing is addressing  
7 it, containing it, present here now, you know, with  
8 respect to people who may have been exposed over a  
9 period of time. That's an action you may have against  
10 the business that did that to you.

11 MR. PALCHEFF: The thing is, I am going a  
12 step further. You're aware of what the effect is on  
13 the kids. I am saying that is okay. I have already  
14 gone through this. Why not see if there is any effect  
15 on me, and that will determine whether there is going  
16 to be any effect on these kids, and maybe some of the  
17 things that you're doing is a waste of money.

18 MS. VANLEEUEWEN: We can't just do it with  
19 you. We'd have to do numbers. We would have to do  
20 you, all the kids who you knew in grammar school.

21 MR. PALCHEFF: Do my age group.

22 MS. VANLEEUEWEN: We don't know what they  
23 were all --

24 MR. PALCHEFF: Model me for the exposure.

1 MS. VANLEEUEWEN: As I said, I don't know  
2 what you were exposed to. I don't know whether you  
3 ate your mud pies when you were two years old, or you  
4 were eight years old.

5 MR. PALCHEFF: Kids are eating mud pies  
6 now.

7 MR. SIEGEL: Would it be fair to say that  
8 the studies that you're doing on children have a  
9 permanent effect on them? If you said IQ's are lower,  
10 and are likely to be lower throughout their lives so  
11 that information you're getting on the effectss on  
12 children is also going to be relevant to adults?

13 MS. VANLEEUEWEN: I think that it's more  
14 than just measuring IQ's, Steve. I think that  
15 everything I have seen lately indicates that IQ's of  
16 age -- If we were to measure you now, maybe you have a  
17 higher IQ than you would have had when you were  
18 younger, when you were 18. But there are studies that  
19 suggest that these three IQ points or five IQ points  
20 that you might lose, that may or may be not measured.  
21 If there are, that we can't really look at IQ as a  
22 real hard index in the number or IQ points that you  
23 would lose for certain blood lead levels. Okay. So  
24 that is a hard one. We don't have enough data to say

1 that with any accuracy. What we do know is that the  
2 kids who do have higher lead levels have trouble  
3 learning. They do have lower birth weight. They have  
4 lower bone structure. There are a number of things  
5 that we do know, and that we want remedied.

6 MS. ANDRIA: Just a second. My father  
7 grew up in a similar time to Mr. Palcheff. They have  
8 a similar background. They are both Macedonian. I am  
9 sure they had similar food habits, because it's a very  
10 Macedonian food, and Croatian is very similar. There  
11 is a lot of calcium in that diet, yogurt, spinach, all  
12 kinds of things that would counter that. A lot of  
13 children I have dealt with with the lead levels now at  
14 higher lead levels don't drink milk. They don't --  
15 They're eating fast foods that have little spinach or  
16 anything that is going to force that calcium out. I  
17 don't think he is a person you should be looking at as  
18 some kind of model that we can see what this does.

19 MS. VANLEEUVEN: The people on the curve.  
20 We would have a curve.

21 MR. PALCHEFF: She's wrong in many  
22 aspects, because she doesn't understand we had our own  
23 cows. They grew -- They actually had pastured land  
24 that they had that was right next to National Lead,

1 and the milk that we got from the cows came from the  
2 grass that was next to National Lead. So if you're  
3 talking about calcium, all of our calcium in ours  
4 would have ingested lead. I am just saying --

5 MS. VANLEEUVEN: I don't know too much  
6 about lead in cows.

7 MR. BRADLEY: Since we are going  
8 around --

9 MR. PALCHEFF: I'm brining this up to  
10 you. These are things you need to address, in  
11 addition to your normal models. I am saying that I  
12 don't think you're going into the real problems with  
13 enough depth, because the same thing goes with these  
14 people that you're finding deficiencies whether they  
15 came from lead, like the lead plant, lead paint, or  
16 what it is. I am saying that there are many areas in  
17 the country that may have lead from other sources that  
18 may be more detrimental than what lead we had here.

19 MS. PASTOR: Maybe since we are not  
20 asking questions anymore, just sort of bantering back  
21 and forth, maybe we can make this the start of the  
22 comment part. You remember we have it on the agenda.  
23 We're really here also in the middle of the comment  
24 time to give us your statements, and that's sort of

1 what we're getting into now, opinions and statements.  
2 How many --

3 MR. PALCHEFF: I had some. I'll be back  
4 tomorrow so I don't miss out on any.

5 MS. VANLEEUEWEN: We'll just answer some  
6 or them. The EPA does not do studies or use models to  
7 produce blood lead levels in the children, but we use  
8 the literature, we use the studies that have been done  
9 by all of the these physicians, and people all over  
10 the world, okay, who have studied the effects of lead  
11 on children. I am not doing studies.

12 MR. BRADLEY: Just for the paint versus  
13 soil concept, the EPA is not saying paint is not a  
14 problem in Granite City. We feel that, based on  
15 studies that have been done down here, and our own  
16 observation of, you know, the age of houses, and you  
17 know, when they were last painted, soil and paint are  
18 both a problem. Where you run into trouble is the law  
19 that we work under doesn't allow us to abate paint.  
20 We admit it's a problem, but what is your -- The  
21 source of that supertund is basically a law that deals  
22 with companies or businesses that have put out  
23 emissions, or somehow, you know, created an impact on  
24 people's lives, or to their health by allowing the

spread of pollution. And when you get to the paint, the law doesn't allow us to clean it up. Who would we charge if we were to clean it up? The individual homeowner? That's not what the law is envisioning. And with respect to whether the paint is the biggest problem, I don't know. It probably depends on the home, but we can see a clear -- It is absolutely clear that as you get closer to that smelter, you get more problems with high blood lead levels. You get much higher soil lead levels. I don't think that every house that's further away was never painted with lead base paint. There is probably a similar pattern of paint composition on houses. It's obvious to us the smelter is the source of a lot of the lead in the soil. It all points right back to that same smelter. It keeps getting higher as you get closer to it. It's clear to us we have an industry that created a high lead contamination problem that needs to be addressed, and paint is a difficult issue. We agree it is a problem. We don't really have the means to address that right now. We will be glad to work with anyone else to try to work out --

MR. PALCHEFF: What were the units of density on the 2.94 or what points per cubic yard?



1 MR. BRADLEY: I think that's right.  
2 Tons per cubic, yeah.

3 MS. PASTOR: Okay. Before we do  
4 comments, does anyone have more questions?

5 MR. PALCHEFF: That's an old study?

6 MR. BRADLEY: Right.

7 MS. PASTOR: If someone has something  
8 they want to say in the form of a statement, you can  
9 take that now. If you have more questions, we can do  
10 a little bit of that later.

11 MR. GLASPER: I have a statement.

12 MS. PASTOR: Again, this is like a  
13 statement and not a question. So for the court  
14 reporter, at this time, could you state your name and  
15 spell it for her, if she needs it.

16 MR. GLASPER: Well, maybe it's not. It's  
17 a statement in regard to the follow-up as far as how  
18 the alleys are being put back in condition after the  
19 cleanup. That's what the comment is on.

20 Mr. BRADLEY: Which alley?

21 MR. GLASPER: 517 Fieldmore. And the day  
22 that they came back and chipped my alley, it was a  
23 poor job. I asked the gentleman that was on the  
24 machinery, 'Sir, are you finished?' He says yes.

[ ]  
1 Well, as far as I'm concerned, there is not enough  
2 rocks down. You can see the oil, and I can't even  
3 walk in the alley right now. I have to track this in  
4 my home. It was a poor job, and as to this date it  
5 still hasn't been fixed. There are still 72 alleys,  
6 and I told the alderman about it. It was just a poor  
7 job, and I don't think we should have to live with  
8 this. You can't walk on the alley while it's still  
9 being tar without sinking in it. I think the alleys  
10 should be put back in the condition that they were  
11 found.

12 MS. PASTOR: Thank you for that comment.  
13 Someone else have a comment?

14 MS. GRIGGS: I noticed that some of the  
15 alleys have rocks, and I notice that some of the  
16 alleys are concrete. Why was that?

17 MS. PASTOR: This is not questions. This  
18 is just comments. Well, if you have a statement, or  
19 anything about -- That's a question.

20 MR. PALCHEFF: Yes, I have a statement.

21 MS. PASTOR: You're name?

22 MR. PALCHEFF: My name is George  
23 Palcheft. I live at 12th and Grand in Madison,  
24 Illinois. My comment is that I think you need to

1        assess before you remove the soil, whether there are  
2        alternate means of reducing the lead level, for  
3        example by tilling the soil. I have examined where I  
4        grow my vegetables, the lead level was 300 per 350,  
5        and an adjacent part they found one spot only. They  
6        checked one spot, 550. And as an engineer, first of  
7        all, one spot in a big yard is insufficient to  
8        determine what the average of the yard may be, and so  
9        I think that before you determine whether you are  
10       going to remove soil or not recommend removing it, I  
11       think you have to determine what the real soil level  
12       is. And you should consider, as I said an alternative  
13       instead of removing the soil, the possibility of  
14       tilling, because I can show you by tilling where I  
15       grow the stuff and it does affect it. If I did have  
16       higher lead level in that area, I must have reduced it  
17       substantially.

18                    MS. PASTOR: Thank you for that comment.  
19       Any other comments? Anyone else? Thank you for those  
20       comments. We'll close the comment portion of the  
21       meeting. Those comments will be responded to in a  
22       little while in what we call a Responsiveness Summary.  
23       And the copies will be part of the official record, as  
24       well, after the time period when it's over, December

1 14. We will look at all of it. You have a little  
2 time for getting that in the mail. So if you looked  
3 at the fact sheet, there is a little insert so that if  
4 another thought strikes you in the next month or so,  
5 and you want to jot it down and send it, you may.

6 We have another meeting tomorrow night.  
7 You can hand it to us, or make another statement, if  
8 you think of something. Otherwise, for now, we will  
9 just close this portion of the comment portion of the  
10 meeting. And we can take a couple more questions.  
11 We have to get someone over here to lock up this room.  
12 So we can do a couple more, and then we will probably  
13 have to close it.

14 MS. ANDRIA: If the EPA, like he just  
15 suggested, rototilling, and they did rototilling  
16 study, if they hand in results of this study, how do  
17 the citizens have an opportunity to look at their  
18 comments, and the comments, if they are to be  
19 considered? Would you -- At this stage, is it  
20 appropriate for you to consider such a thing as  
21 rototilling, or some other remediation?

22 MS. PASTOR: I don't believe the law  
23 provides for that. We can have our attorney help us  
24 out here.

1 MR. SIEGEL: Actually, earlier in the  
2 process, several years ago, some parties brought up  
3 the issue of tilling, and we did provide a response to  
4 them, which we would be happy to give you a copy of.

5 MR. PALCHEFF: I'd like to a get copy of  
6 that response, too.

7 MR. SIEGEL: Sure.

8 MR. PALCHEFF: Like I said, I can show  
9 you two pieces of land right next to each other where  
10 I am still growing vegetables. It's tilled every  
11 year. It's lower than the part where you are saying I  
12 have got 550 or so. That's another thing I feel that  
13 that's close to questionable, whether you should do  
14 it.

15 MS. ANDRIA: You keep on asking a  
16 different question.

17 MR. BRADLEY: You also brought up that  
18 they did a tilling study. First of all, they have not  
19 given us a copy of that study. I don't know if they  
20 will during this time period. In a sense, it's not  
21 relevant, because we're dealing with the cleanup  
22 level, not the method of cleanup. As Steve Siegel  
23 stated, we've already commented on the merits or lack  
24 thereof of tilling, and we'd be glad to share that

1 with you. To-date, they still haven't given us the  
2 study. It's something to look at. It's not really  
3 what we are here to talk about or consider, because  
4 we're checking at the cleanup level, not how do you  
5 clean it. We've already more or less been through  
6 that. That's not what we're commenting on here  
7 either.

8 MS. ANDRIA: My question still stands as  
9 to whether something can be submitted by whatever  
10 parties or citizens, is there some sort of structure,  
11 place, or procedure in place that people can see what  
12 the comments are so that they can comment then on the  
13 comments?

14 MR. SIEGEL: There is no provision for  
15 continuous comment on comment, because that continues  
16 on and on. Basically, the law provides for people to  
17 submit their comments during a prescribed period, and  
18 for the agency to respond to those comments, and then  
19 make a decision.

20 MS. ANDRIA: Are those comments available  
21 to be seen in this interim period?

22 MR. SIEGEL: If people care to, prior to  
23 to the conclusion of the period, we'd be happy to add  
24 those to the library's collection so that you can look

1 at them.

2 MR. PALCHEFF: Wouldn't it be a  
3 worthwhile consideration to take some of -- more of  
4 your time and get all of these comments and evaluate,  
5 and at the end of your evaluation, then have a town  
6 hall meeting, present what people have suggested this,  
7 and this is why we are not doing that, or this is why  
8 we are going to do this, based upon this. What we've  
9 done before, we are looking at this alternate  
10 approach, and this is the logic why we're doing this,  
11 period. What you were asking for other people or  
12 comments to --

13 MR. SIEGEL: In a sense, we've already  
14 done that. As you know, this is not the first comment  
15 period we've had on this issue. So we've actually had  
16 a comment period and comments submitted. People are  
17 now commenting on previous comments submitted in  
18 that --

19 MR. PALCHEFF: Like she's saying,  
20 comments and anything, and not let them know what the  
21 effect is. It's like gone until another on. It's  
22 shot. You haven't considered it.

23 MR. SIEGEL: What we do, so that you  
24 know, if a comment has been considered is we need to

1 respond to each comment that we receive. That was the  
2 purpose of the official comment section of this  
3 meeting. That's the purpose of giving people an  
4 opportunity to submit their comments, as well. We do  
5 need to respond to those. We intend to. When you see  
6 the Responsiveness Summary, you will see comment,  
7 response, comment, response.

8 MS. VANLEEUEWEN: That's summarized in the  
9 library.

10 MR. PALCHEFF: Will you send us a copy so  
11 we know what you're doing?

12 MR. SIEGEL: It will be available in the  
13 library for anybody to view. You can certainly  
14 request a copy of it, as well.

15 MR. PALCHEFF: That's the other thing. I  
16 have been to the library to try to look at the  
17 volumes, and you have got addendum, addendum. It's  
18 very difficult to determine which volume should I be  
19 looking at to find information that I am interested  
20 in. For example, you had some -- We talked once  
21 before. You had a particular volume where you listed  
22 all of the streets and addresses and what the lead  
23 levels were. What volume or addendum is that now in?

24 MR. SIEGEL: May I suggest what you



1       should do is at the conclusion of this comment period,  
2       what you are asking for is a document called  
3       Responsiveness Summary. Why don't you give us a call,  
4       and ask us for a copy of the Responsiveness Summary?  
5       We'd be happy to send it to you.

6               MS. PASTOR: Not every one wants one  
7       cluttering their mailbox. If you want one, it is not  
8       a problem.

9               MR. PALCHEFF: I wasn't talking only  
10      about that, but, I mean, four different areas that  
11      you --

12              MS. VANLEEUEWEN: There is an index.  
13      There should be an index, and it says that Number 63  
14      is such and such a paper.

15              MR. PALCHEFF: What I propose is index  
16      the first set of the first volumes or so, and then you  
17      have an index that jumps so they are not in that first  
18      index. I even have talked to the librarian.

19              MR. BRADLEY: There is now a second index  
20      in there.

21              MS. PASTOR: If you really get there and  
22      are really stumped, and you know the kind of  
23      information you're looking for, try as you might, you  
24      just can't find it, call up Brad, and just ask him.

1 You can call on the 800 number and ask. If you just  
2 can't find this piece of information, he probably  
3 could figure it out for you, direct you to the exact  
4 volume.

5 MR. PALCHEFF: Ask for two volumes? I  
6 just asked Brad to tell me what the best volume was  
7 that shows all of the properties in Madison and  
8 Granite City.

9 MR. BRADLEY: It's called volume or  
10 addendum. It's Appendix G.

11 MR. PALCHEFF: Appendix G?

12 MR. BRADLEY: To a large report.

13 MR. PALCHEFF: Appendix G? There is  
14 about six different sections of it; right?

15 MR. BRADLEY: Yeah

16 MR. PALCHEFF: Which section?

17 MR. BRADLEY: G. It's you goes A, B, C,  
18 D, E, F, G. If I remember, there really isn't --I  
19 mean, there are only two parts to that. One of them  
20 is a statistical analysis. Then the back end is  
21 alphabetically by street in order of number, and what  
22 the results were. Just flip to the back of that.  
23 What that is, it's not a document by itself. It's an  
24 appendix to a document, Predesigned Field

1 Investigation.

2 MR. PALCHEFF: Predesigned --

3 MR. BRADLEY: Field Investigation.

4 That's the sixth or seventh appendix to that.

5 MR. PALCHEFF: What was that date, do you

6 know?

7 MR. BRADLEY: I don't know if I have that

8 here. It was -- Let me see. It was in '92, I

9 believe.

10 MS. PASTOR: Is that the cover there?

11 MR. BRADLEY: No. That's only part of

12 it.

13 MR. PALCHEFF: There are volumes missing,

14 too. What about your volume that you were talking

15 about, the model?

16 MS. VANLEEUVEN: We have submitted

17 supplements to the Administrative Record, which

18 includes something like 102 new entries in those.

19 There is an index. There is an index, and the best

20 thing to do is just read through that index, and see

21 if there is anything that you are interested in.

22 MR. BRADLEY: I'm still looking.

23 MS. VANLEEUVEN: It was on the very

24 last --

1 MR. BRADLEY: I think it was Number 112.  
2 It's the last entry.

3 MS. VANLEEUEWEN: I am not sure it's the  
4 last.

5 MS. ANDRIA: Can we put that on reserve?

6 MR. BRADLEY: Someone other than -- It's  
7 really not supposed to be taken out, but sometimes we  
8 can't -- It's currently just lined up on a shelf, and  
9 anybody can go in there. If someone wants to remove  
10 something, you can take that sheet out. It is only  
11 four pages.

12 MS. PASTOR: See, they are not supposed  
13 to.

14 MR. BRADLEY: It's fairly small, too.  
15 It's a small report. We've had things with --  
16 problems with things being removed. It's common in a  
17 lot of the places we work.

18 MR. PALCHEFF: The way they are filed,  
19 and the way they are boxed, box them, and they stand  
20 on top of the radiator. There are no bookshelves in  
21 there. The library records, as there was before, I am  
22 telling you they are putting some of them together  
23 myself. I have tried to look through them. That's  
24 why I was asking you for specifics, you know. I even

1 talked to the librarian who was in charge, and they  
2 say, 'We don't know. We don't know.'

3 MS. PASTOR: That's the best they could  
4 do. They don't have a lot of shelf space. We can't  
5 ask them to take books off of the shelves to put our  
6 material up there. All we can ask is that they house  
7 our material, make it available to people, if they  
8 come in and ask for it. They aren't obligated to know  
9 piece-by-piece what is in there, you know. Hopefully,  
10 with what Brad has told you, that can kind of help you  
11 out, kind of probably a tip to help you out if you --

12 MR. PALCHEFF: Get boxes and put them in  
13 them in.

14 MR. BRADLEY: We'll take a look at it  
15 tomorrow, too. If something is missing in there, or  
16 you cannot find it, certainly let us know. If it has  
17 been removed, we will replace it.

18 MR. PALCHEFF: You suggest G? I suggest  
19 you get some paper boxes, seriously, and just put them  
20 on there, put in them to act as a bookcase, and have  
21 them in sequential order, as they should be. There's  
22 a better chance that they will stay together then.

23 MS. VANLEEUVEN: That's the way they sent  
24 them. They took it out of the boxes when they put it

1       on the shelf. So if we did send it boxed --

2                   MS. PASTOR: Good suggestion. We have  
3       some larger libraries that actually keep them nicely  
4       in order and files similar to what you are saying.  
5       We'll look into that. We can --

6                   MR. BRADLEY: I want to answer her  
7       question about the concrete.

8                   MS. GRIGGS: Thank you.

9                   MR. BRADLEY: The reason -- I think it  
10      was the first four alleys where concrete was the  
11      original plan. The original Record of Decision  
12      assumed the contamination would go fairly deep.  
13      That's what some of the borings we took indicated.  
14      And our plan was to do the alley until we saw no more  
15      battery chips, or until we saw no more battery chips,  
16      and then put a barrier over it. And we chose  
17      concrete, because it's a more permanent barrier than  
18      asphalt. And what we found after doing these first  
19      four was that the borings seemed to overstate the  
20      depth of the contamination. We were able to clean it  
21      up to the 500 parts per million level within 24  
22      inches, in most cases. So we then roped that, SINCE  
23      the difference, once we've cleaned it up to 500 parts  
24      per million, there is no need for a barrier anymore,

1 because what we've left in place is less contaminated  
2 than the cleanup. So then we'd just be storing. I  
3 want to know which alley you're talking about later.  
4 We restored it, based on the way it was when we found  
5 it. A lot of cases these alleys had different fill,  
6 you know, as we go down certain alleys, some of them  
7 were blacktop, some concrete to battery chips to only  
8 rock to gravel. Just after, you know, we found that  
9 to clean these alleys up within 24 inches of the top  
10 surface, it would be back, then put rock over, then  
11 chips, which is what he was talking about. And then  
12 they are restored. You know, it's a continuous layer.  
13 It's not all these different types of fill. It is  
14 almost impossible to put them back the way we found  
15 them, in most cases. That's why we did that, because  
16 we could clean them up fully, and then there was no  
17 need to put a solid barrier over them, such as  
18 concrete, and then go back and continue to patch that  
19 up over the years. It's a better plan, because we  
20 then can say it's clean for you. Then we don't have  
21 to come back and keep repairing it. It's better for  
22 everyone.

23 MS. GRIGGS: Do you think it's safe to  
24 put down oil on these little rocks they have been

1       laying, or whatever type of material that is?

2               MR. BRADLEY: Yeah, I do. It's kind of  
3       interesting you bring that up. Originally, we were  
4       going to just put the rocks down, and some of the old  
5       men said, 'Why don't you chip seal?' And we did.

6               MS. GRIGGS: That's not working.

7               MR. BRADLEY: It's not?

8               MS. GRIGGS: I'm saying you track it into  
9       your home. You can't walk down the alley anymore when  
10      you're walking your dog or whatever. And it's a  
11      problem, you know, it gets on the tires of your car  
12      and --

13              MR. BRADLEY: I'm glad you brought that  
14      up. We will obviously be remediating more of these in  
15      the future. If it's not working, we won't do it  
16      anymore. If we need to go back and repair some of  
17      them, we will do that. It's just unfortunate in that  
18      in essence we were asked to do that. Now it's not  
19      working. That wasn't recommend as our original plan.  
20      We'd did that to respond to some of the aldermen's  
21      requests

22              MR. Palcheff: Brad, have you been  
23      evaluating water levels, other than at the site a half  
24      a mile away? We had water underneath all of our roads



1 15 -- our city at 15 foot down, because a lot of  
2 people used that to water gardens and that. I don't  
3 know if you are aware of that.

4 MR. BRADLEY: Yeah, I'm aware of that.  
5 Only one person that has ever told us that they have  
6 done that. That's the guy in Granite, the 1400 block.

7 MR. PALCHEFF: A guy in Granite has a  
8 pump that does that right next door to me. His dried  
9 up temporarily. It might be just saturated and so on.

10 MR. BRADLEY: What?

11 MR. PALCHEFF: From pumping. What I'm  
12 saying, I am saying there is water, I know, in that  
13 area, because even part of the land in the area,  
14 because of water.

15 MR. BRADLEY: Well, the water table had  
16 not got that far down.

17 MR. PALCHEFF: That's what I am saying.  
18 Are you checking that for lead level, just as well, or  
19 at the same time to see how far it has spread?

20 MR. BRADLEY: We are going to be doing  
21 that as part of my thing. We will have to do  
22 monitoring to see how far the lead contamination went  
23 into the pile. We plan to sample wells -- I'm talking  
24 about the 1400 block of Grand -- the next time we're

[ ] 1 out. That's the kind of thing we can't track. Did it  
2 surface in the area? We're only interested in the  
3 downgrading area, because if they're doing that up  
4 from the pile where the water is not flowing in that  
5 direction, it's not going to have any impact. We did  
6 surface, and the Illinois EPA recommended with that.  
7 It's the only one we ever found. If there are others,  
8 they don't register that with anybody. There is no  
9 way to track it. So, it's up to the people to tell us  
10 that kind of stuff.

11 MR. PALCHEFF: One other thing here, I  
12 was under the the impression in the meetings, and  
13 reading newspapers, and so on, that evaluating what  
14 other signs and so forth have been proposed to you of  
15 raising this 500 parts per million, 500 parts per  
16 million to maybe 1,000 or 1,200 or so. Are you in the  
17 process of evaluating and considering changes,  
18 possibly changing of that 500?

19 MR. BRADLEY: That's what we are doing  
20 right here.

21 MS. PASTOR: That's the comment period.

22 MS. VANLEEUVEN: That's the earlier part.

23 MR. PALCHEFF: So we would have two  
24 months of comments, to get comments in the mail?

1 MS. PASTOR: You can mail the comments,  
2 or tomorrow night people can hand them to us. It's  
3 not just three people's comments. There will be many  
4 more before it's over.

5 MS. VANLEEUVEN: Actually, if you look at  
6 Dr. Marcus's report on the re-evaluation of the data,  
7 depending on what assumptions you make when you run  
8 the model, you would look at soil cleanup levels in  
9 the range of 300 to 480, which is less than 500.  
10 Okay. So the data would suggest that, depending on  
11 what the assumptions were that you could have cleanup  
12 of less than what we have proposed. However, we feel  
13 that the average cleanup we would be able to use an  
14 average value for the -- in the computer, into the  
15 model, and get cleanup there close to the 500. That's  
16 the suggestion that --

17 MR. PALCHEFF: Did you get above that?

18 MS. VANLEEUVEN: No. It's slightly  
19 below.

20 MS. PASTOR: Anymore questions? I'm kind  
21 of nervous about having someone come over and lock up  
22 after us.

23 MR. PALCHEFF: Stay overnight.

24 MS. PASTOR: I think they'd prefer not

1 to.

2 MS. ANDRIA: It's a tri-part question, I  
3 think, if I could get them all three. In the health  
4 study, did you get the comments, the public comments  
5 on the health study? Is it appropriate to comment on  
6 the health study, and is the health study being used  
7 in any way in formulating your decision about what  
8 cleanup level you're using?

9 MS. PASTOR: Did you do that?

10 MR. BRADLEY: As far as, and correct me,,  
11 but I think there is only one set of comments that  
12 were submitted on health studies. Yes, we have them,  
13 because we submitted them.

14 MS. VANLEEUEWEN: We did not.

15 MS. ANDRIA: At the so-called public  
16 hearing, public meeting?

17 MS. VANLEEUEWEN: Yes. But the study was  
18 done by the Illinois Department of Public Health, and  
19 they solicited comments.

20 MS. ANDRIA: And you got those comments?

21 MS. VANLEEUEWEN: We submitted comments.  
22 We were the only ones who submitted comments.

23 MR. BRADLEY: Exactly, just like we're  
24 doing. Was there a court reporter there?

1 MS. ANDRIA: No. No.

2 MS. VANLEEUEWEN: I didn't get anything on  
3 that.

4 MS. ANDRIA: It was purported to be a  
5 public meeting.

6 MR. BRADLEY: Did you make comments?

7 MS. ANDRIA: Yes, I did.

8 MR. BRADLEY: I didn't get anything on  
9 it.

10 MS. ANDRIA: I was told that it would be  
11 answered, and I never did get anything.

12 MR. BRADLEY: The best thing I got was  
13 just a garbled recording of it, which really couldn't  
14 pick up what most people were saying on the  
15 transcript.

16 MR. SIEGEL: I have called up the  
17 Illinois Department of Public Health and asked if  
18 there were any comments submitted in, other than the  
19 ones submitted by the U.S. EPA. I was told over the  
20 phone that ours was the only one, the only comment  
21 submitted.

22 MS. ANDRIA: That's very interesting.  
23 Who did you speak with?

24 MR. BRADLEY: Dave Webb, was it?

1 MR. SIEGEL: I don't recall Dave.

2 MR. BRADLEY: Wasn't it?

3 MR. PALCHEFF: I thought the Illinois  
4 people would be here tonight. Are they going to be  
5 here tomorrow?

6 MR. BRADLEY: I don't know. It is up to  
7 them whether they think they want to come.

8 MS. VANLEEUEWEN: She asked if we were  
9 considering it. We did look at the study, Kathy.

10 MR. SIEGEL: There were several calls  
11 that weren't returned. Then I called the different  
12 agency in the Springfield office. They haven't  
13 responded to the request.

14 MR. BRADLEY: Kathy, we're certainly  
15 looking at that. That's one thing that has been  
16 produced since the Record of Decision was done in 1990  
17 at that time. We're certainly looking. We're looking  
18 at everybody.

19 MS. VANLEEUEWEN: It was a great deal  
20 more.

21 MR. BRADLEY: That was a report that, in  
22 essence, we were requested to wait for it's release  
23 before we started the public comment period. Yes, of  
24 course, we're looking at it.

1 MS. ANDRIA: Then is it appropriate and  
2 legal for us to submit comments on the Public Health  
3 report in this comment period?

4 MS. VANLEEUEWEN: It's part of the  
5 Administrative Record. Maybe you can submit comments  
6 to us. I don't know.

7 MR. BRADLEY: You can submit whatever  
8 comments you want.

9 MS. ANDRIA: I want it be considered. I  
10 don't want it to sit there.

11 MR. BRADLEY: If you are submitting it on  
12 the health study, we're not going to be able to change  
13 the health study report.

14 MS. VANLEEUEWEN: We did not do that  
15 study.

16 MS. ANDRIA: If my information has some  
17 doubts on the validity of its results, then I think it  
18 has to be considered.

19 MS. PASTOR: That would be legal to make  
20 that comment?

21 MR. SIEGEL: Yes

22 MS. VANLEEUEWEN: You might also want to  
23 read our response on our evaluation of the study, and  
24 also this report by Allen Marcus. I believe, of these

1 reports, Dr. Allen Marcus was the doctor on the  
2 preliminary assessment of the environmental data of  
3 that study.

4 MS. PASTOR: These would be in the  
5 library?

6 MS. VANLEEUEWEN: These are now part of  
7 the Administrative Record.

8 MR. BRADLEY: If you ever have trouble  
9 finding anything in the Granite City library, there is  
10 a back room; go straight past the circular desk, and  
11 then go into the door to the right. They have sort of  
12 the archives area. That tile has taken up so much  
13 stuff to leave it all on the window sill anymore.

14 MS. ANDRIA: Are the new things on the  
15 window sill?

16 MR. BRADLEY: They kind of move it. We  
17 fix it up, and it kind of gets changed again. So I  
18 think someone, perhaps library personnel are moving  
19 some things in that back room. If you can't find it,  
20 try there first, and then call me. I'll hopefully be  
21 able to direct you to it.

22 MS. PASTOR: Can we end this for tonight?  
23 I know I'm going to see some of you tomorrow anyway.  
24 If you all want some information, if you want to take.



1 a quick look at any maps, or addresses, or streets, or  
2 anything, certainly we will stay around for little bit  
3 to do that. But otherwise, thank you for coming, and  
4 see you tomorrow night, possibly; or give us a call if  
5 you have any questions.

6  
7 \* \* \* \* \*